

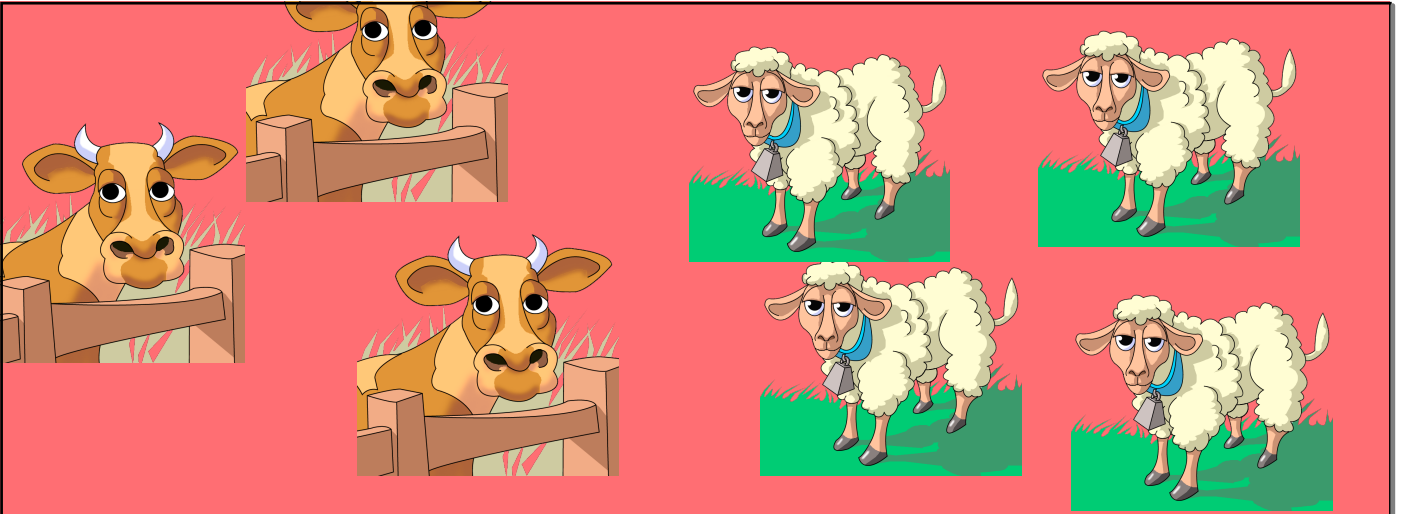
Simplifying Expressions



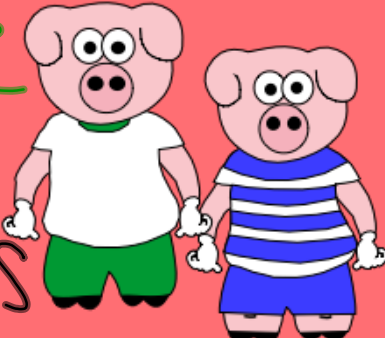


*Let's
plan
a
party!!*





The top section of the slide features a red background with several cartoon illustrations of farm animals. On the left, three brown cows with white horns are shown behind a wooden fence. On the right, four white sheep with blue collars and bells are standing on green grass.

$$4s + 2p + 3c$$
$$3c + 2p + 4s$$


Two cartoon pigs are standing side-by-side. The pig on the left is wearing a white t-shirt and green shorts. The pig on the right is wearing a blue and white striped t-shirt and blue shorts.

Simplified expression:

Now let's do the same thing, but with variables . . .

x x

m
 m m

y y

$$3m + 2x + 2y$$

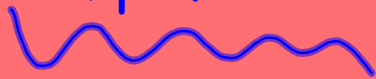
Simplified expression:

Let's step it up a notch . . .

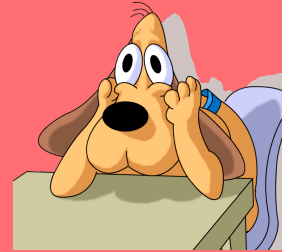
$$3t^2 + 3w + (6wt + 3wt)$$

$$3t^2 + 3w + 9wt$$

Simplified expression:



C'mon, that was too easy.
How about a challenge?!

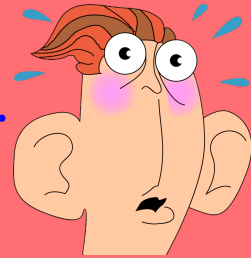


$$\begin{array}{r}
 \underline{2x^2} + \underline{4xy} - \underline{1x^2} - \underline{2xy} \\
 \swarrow \quad \searrow \\
 \underline{1x^2} + 2xy \\
 x^2 + 2xy
 \end{array}$$

Handwritten annotations include a green circle around $-1x^2$, a red circle around $-2xy$, and a green line connecting the underlined $2x^2$ and $-1x^2$ terms. To the right, the terms $1x$ and $1x^2$ are written vertically. At the bottom right, the simplified expression $x^2 + 2xy$ is written in red.

Simplified expression:

Let's see if this will stump you . . .



$$2x^2 + 3y^2 - 1x^2 + 4xy - 2xy$$

$$1x^2 + 2xy + 3y^2$$

Simplified expression:

Homework